

%STN;HighlightOn=***;HighlightOff=*** ;

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1648rx1

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1			Web Page for STN Seminar Schedule - N. America
NEWS	2	TAN	02	STN pricing information for 2008 now available
NEWS	3	TAN	16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4	TAN	28	USPATENT, USDAT2 and USPATOLD enhanced with new custom IPC display formats
NEWS	5	TAN	28	MARPAT searching enhanced
NEWS	6	TAN	28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	TAN	28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	TAN	28	MEDLINE and IMEDLINE reloaded with enhancements
NEWS	9	FEB	08	STN Express, Version 8.2, now available
NEWS	10	FEB	20	DCT now available as a replacement to DPCI
NEWS	11	FEB	25	FEIREF reloaded with enhancements
NEWS	12	FEB	25	IMSDPRODUCT reloaded with enhancements
NEWS	13	FEB	29	WDINDEX/WDINDX/WDIY enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR	31	FEICDR, FEIDAT and IFIUDB enhanced with new custom IPC display formats
NEWS	15	MAR	31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR	31	CA/CANLUS and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR	31	IPCI now available as a replacement to IPDCT
NEWS	18	MAR	31	EMRASE, EMRAI, and IEMRASE reloaded with enhancements
NEWS	19	APR	04	STN AnaVist, Version 1, to be discontinued
NEWS	20	APR	15	WDINDX, WDINDEX and WDIY enhanced with new predefined hit display formats

NEWS BYDDRES FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.2
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

*****STN Columbus*****

FILE 'HOME' ENTERED AT 02:55:43 ON 17 APR 2008

-- file medline biosis carpus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SECTION
0.84	0.84

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 02:57:49 ON 17 APR 2008

FILE 'BIOSIS' ENTERED AT 02:57:49 ON 17 APR 2008
Copyright (c) 2008 The Thomson Corporation

FILE 'CAPLIS' ENTERED AT 02:57:49 ON 17 APR 2008
THIS IS SUBJECT TO THE TERMS OF YOUR STM CUSTOMER AGREEMENT.
PLEASE SEE "HELP FILES/TERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

-- keiichi?au and fukuda?/au
L1 TRUNCATION SYMBOL NOT VALID WITHIN 'KEIICHI?AU'
The truncation symbol ? may be used only at the end of a search
term. To specify a variable character within a word use '!', e.g.,
'wom!n!' to search for both 'woman!' and 'women!'. Enter "HELP"
TRUNCATION" at an arrow prompt (=>) for more information.

-- keiichi?/au and fukuda?/au
L1 0 KEIICHI?/AU AND FUKUDA?/AU

-- jun?/au and fujita?/au
L2 62 JUN?/AU AND FUJITA?/AU

-- g-csf
L3 29453 G-CSF

-- l3 and fibroblast
L4 713 L3 AND FIBROBLAST

-- l4 and recruit?
L5 23 L4 AND RECRUIT?

-- l2 and l5
L6 0 L2 AND L5

-- l5 and 1970-2004/py
L7 14 L5 AND 1970-2004/PY

-- dup rem l7
DUPLICATES COMPLETED FOR L7
L8 11 DUP REM L7 (3 DUPLICATES REMOVED)

-- l8 and method
L9 5 L8 AND METHOD

-- d ti abs so l8 1-11

ANSWER 1 OF 11 CAPLIS COPYRIGHT 2008 ACS ON STM
TI Adult stem cell ***recruitment*** in an animal using a protease or an
TI activator of a protease, and a method of treating myeloproliferative
TI disorder
AB The invention relates to the use of proteases to ***recruit*** stem
cells from the niches they normally occupy, for example, from the bone

marrow. For example, in MMD9-/- mice, release of Steel-encoded Kit-ligand (cKitl) and hematopoietic stem cell motility are impaired, resulting in failure of hematopoietic recovery and increased mortality. As described herein, MMD9 (matrix metalloproteinase-9/gelatinase B) enables bone marrow repopulating cells to translocate to a permissive vascular niche favoring differentiation and reconstitution of the stem cell and progenitor cell pool. Thus, the invention is directed to a method for ***recruitment*** of adult stem cells in an animal comprising administering to the animal a protease or an activator of a protease wherein the ***recruitment*** translocates an endogenous population of quiescent non-cycling stem cells to a permissive vascular zone in the animal so that the stem cells can proliferate, self-renew, differentiate or mobilize to a target site. The activator can be interleukin-1, thrombospondin, ***Q*** - ***QSF***, GM-CSF, SDF-1 or ***fibroblast*** growth factor-4. The protease can be a matrix metalloproteinase, a collagenase, a gelatinase, a stromelysin, a matrilysin, a metalloelastase, or a membrane-type matrix metalloproteinase. The method may also be used to induce proliferation of adult stem cells in an animal. A therapeutic method for treating a myeloproliferative disorder in a mammal using the same is claimed.
 U.S. Pat. Appl. Publ., 77 pp.
 CODEN: USXXCO

ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 Device compositions for the ***recruitment*** of cells to blood contacting surfaces in vivo. Methods and means for ***recruiting*** cells circulating in the blood stream of a subject to a blood contacting surface and in particular devices and methods for ***recruiting*** endothelial cells to a blood contacting surface of a prosthesis as well as engineering a self-endothelializing graft in vivo by ***recruitment*** of circulating endothelial progenitor cells (EPCs) to form a neo-endothelium on a prosthetic structure are described. Examples are given for ***recruitment*** of endothelial progenitor cells to a blood contacting surface by ligand interaction and by magnetic interaction in vivo.
 U.S. Pat. Appl. Publ., 30 pp.
 CODEN: USXXCO

ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 II-17
 A review. IL-17 is a potent proinflammatory cytokine produced mainly by activated memory CD4-T cells. The family of IL-17, a new family of cytokines, is composed of six functionally related members, i.e. IL-17 and IL-17R-E in humans and mice. IL-17 exerts its biological activity as a homodimer. In contrast to the selected expression pattern of this gene, the IL-17 receptor is ubiquitously distributed among diverse tissues and cells. IL-17 induces the secretion of IL-6, IL-8, DCR2, MCP-1 and ***Q*** - ***QSF*** by ***fibroblasts***, keratinocytes, epithelial and endothelial cells, and is also able to induce ICAM-1 expression, T cell proliferation and growth and differentiation of CD34+ human progenitors into neutrophils. The involvement of IL-17 in the rejection of allogeneic grafts has been demonstrated. The potent inflammatory actions that have been identified for IL-17 and the emerging associations with major human diseases, such as rheumatoid arthritis and allergic asthma, suggest that the family of IL-17 may have significant roles in the pathophysiology of inflammatory processes. IL-17 induces production of metalloproteinases and nitric oxide, responsible for the aggravation of arthritis and joint destruction. IL-17 can ***recruit*** and activate neutrophils in the airways mediated by IL-8 and MIP-2. In addition, IL-17 stimulates human bronchial epithelial cells to release the neutrophil-activating factor IL-8.
 Biotherapy (Tokyo, Japan) (***2003***), 17(1), 85-97
 CODEN: BITPE9; ISSN: 0914-2223

T.R
TT
AR

ANSWER 4 OF 11 RIGHTS COPYRIGHT (c) 2002 The Thomson Corporation on STN
Multiple Mechanisms of SCS2-Mediated Inhibition of ***G***
CSR - Signaling Are Disrupted by C-Terminal Truncation of ***G***
- ***CSR*** - Receptors Found in SCM/AMT.
G - ***CSR*** receptor (G-CSF) signaling regulates survival,
proliferation and differentiation of myeloid progenitor cells into
neutrophils. Different domains and four conserved tyrosine residues in
the receptor C-terminus (V704, V729, V744, V764) have been linked to
signal transduction pathways that mediate these effects. Suppressor of
cytokine signaling (SOCS) proteins utilize their SH2 domains to inhibit
signaling from both critical tyrosine residues in receptor chains and
intermediate signaling molecules. Members of the SOCS protein family
implicated in negative feedback during hematopoietic growth factor
signaling are CIS, SOCS1, SOCS2 and SOCS3. Whether these proteins
downregulate ***G*** - ***CSR*** signaling and which domains in the
G-CSF are involved is still unclear. Also, it is unknown whether and how
mutations truncating the G-CSF found in severe congenital neutropenia
(SCN) patients with a predisposition to AMT, affect SOCS-mediated
downregulation of ***G*** - ***CSR*** signaling. We first
investigated which SOCS proteins were capable of inhibiting ***G***
and SOCS2 but not CIS and SOCS2 inhibited G-CSF activity. Experiments
with tyrosine "null" (m0) and single tyrosine add-back mutants revealed
that while SOCS1-mediated inhibition of ***G*** - ***CSR***
signaling was entirely independent of C-terminal G-CSF tyrosines, Y729 is
a major ***recruitment*** site for SOCS2-mediated inhibition of
G - ***CSR*** responses. The fact that the V729 motif is
universally lost in SCN-derived ***G*** - ***CSR*** - D mutants
indicates that lack of SOCS2 ***recruitment*** may contribute to the
hyperproliferative phenotype of DFI.TA715 expressing cells. We therefore
looked in more detail at the role of SOCS2 in DFI.TA715 signaling. SOCS2
is a major transcriptional target of STAT3. Because G-CSF-DFI.TA715 lacks
two STAT3 activation mechanisms, we performed real time quantitative
RT-PCR on bone marrow cells of G-CSF-DFI.TA715 mice and wild type
littermates. We found that SOCS2 transcript levels are significantly
reduced in DFI.TA715 compared to WTP animals. As expected, based on the
fact that SCN-derived G-CSF mutants lack V729, G-CSF-DFI.TA715 also
showed reduced responsiveness to SOCS2-mediated inhibition. However,
while SOCS2 provided considerable residual inhibition of m0 at higher
SOCS2 concentrations, G-CSF-DFI.TA715 remained completely refractory to
the effects of SOCS2, suggesting a tyrosine independent mechanism of
action involving the receptor C-terminus. Next to the direct inhibitory
effects via SH2 domains, SOCS proteins may downregulate signaling via the
SOCS-box which targets internalized receptors for proteosomal degradation.
G-CSF-DFI.TA715 is severely hampered in ligand-induced endocytosis and may
therefore be refractory to this mechanism. Experiments to test this
possibility using a mutant of SOCS2 lacking the SOCS-box are ongoing. In
conclusion, our data show that C-terminal truncations decrease negative
feedback by SOCS2 in three ways: reduced upregulation of SOCS2, lack of
the major SOCS2 ***recruitment*** site V729 and loss of the C-terminus
with motifs required for internalization and additional tyrosine
independent ***recruitment*** of SOCS2. The lack of appropriate
negative feedback by SOCS2 therefore likely contributes to the
hyperproliferative phenotype of truncated G-CSF mutants found in SCN
Blood (***November 16 2002***) Vol. 100, No. 11, pp. Abstract No.
2850 print
Meeting Info . 44th Annual Meeting of the American Society of Hematology.
Philadelphia, PA, USA. December 06-10, 2002. American Society of
Hematology
CODEN: BLOOAW. ISSN: 0006-4971.

SO

ANSWER 5 OF 11 CADUCE CODVDTGHT 2008 ACS on STM
 Oncostatin M regulates the synthesis and turnover of gp130 leukemia
 inhibitory factor receptor .alpha., and oncostatin M receptor .beta. by
 distinct mechanisms
 The cytokine receptor subunits gp130 leukemia inhibitory factor receptor
 .alpha. (LIFR.alpha.) and oncostatin M receptor .beta. (OSMR.beta.)
 transduce OSM signals that regulate gene expression and cell
 proliferation. After ligand binding and activation of the Janus protein
 tyrosine kinase/STAT and mitogen-activated protein kinase signal
 transduction pathways, neg. feedback processes are ***recruited***.
 These processes attenuate receptor action by suppression of cytokine
 signaling and by down-regulation of receptor protein expression. This
 study demonstrates that in human lung ***fibroblasts*** or epithelial
 cells OSM first decreases the level of gp130 LIFR.alpha. and OSMR.beta.
 by ligand-induced receptor degradn and then increases the level of the
 receptors by enhanced synthesis. The transcriptional induction of gp130
 gene by OSM involves STAT3. Various cell lines expressing receptor
 subunits to the different interleukin-6 class cytokines revealed that only
 LIFR.alpha. degradn is promoted by activated ERK and that degradn of
 gp130 OSMR.beta. and a fraction of LIFR.alpha. involves mechanisms that
 are seen from signal transduction. These mechanisms include
 ligand-mediated dimerization, internalization, and endosomal/lysosomal
 degradn. Proteosomal degradn appears to involve a fraction of receptor
 subunit proteins that are ubiquitinated independently of ligand binding.
 Journal of Biological Chemistry (***2001***), 276(50), 47038-47045
 CODEN: JBCHA3; ISSN: 0021-9258

ANSWER 6 OF 11 BIOSIS CODVDTGHT (c) 2008 The Thomson Corporation on STM
 Bacterial stimulation of ***G*** expression contributes
 to DMN persistence at the site of infection
 Bacterial interactions with airway epithelial cells result in the
 recruitment and activation of DMNs through ligation of glycolipid
 receptors, stimulation of MAP kinases, NF-kappaB and the transcription of
 proinflammatory cytokines and chemokines. In the studies described, we
 demonstrate that P. aeruginosa stimulates epithelial ***G***
 OSR expression which then serves to promote DMN survival
 G - ***OSR*** is produced by macrophages, lymphocytes and
 fibroblasts in response to bacterial stimuli, although its
 function in the airway is less well characterized. To determine if
 G - ***OSR*** contributes to airway inflammatory responses, the
 expression of ***G*** - ***OSR*** was monitored in several airway
 epithelial cell lines following stimulation by P. aeruginosa, S. aureus
 and selected mutants. There was no constitutive ***G*** - ***OSR***
 expression as detected by RT-PCR but 24 hours following exposure to
 either organism there was a significant amount of mRNA and a 10-fold
 increase in ***G*** - ***OSR*** production as measured by ELISA.
 The in vitro studies were confirmed by demonstration of ***G*** -
 OSR by immunocytochemistry of the bronchial epithelial cells in
 sections of mouse lung 24 hours following infection with either S. aureus
 or P. aeruginosa. The physiological effects of ***G*** - ***OSR***
 on DMN apoptosis were monitored using a DMN viability assay to compare the
 survival of human DMNs incubated in conditioned media harvested from
 epithelial cells stimulated with P. aeruginosa or from controls. There
 was a 75% increase in DMN survival under conditions in which the DMNs were
 exposed to media from P. aeruginosa stimulated epithelial cells as
 compared with controls. This effect was negated by the addition of anti-
 G - ***OSR*** but not anti-GM-CSF. The results suggest that
 G - ***OSR*** transcription is upregulated in airway epithelial
 cells upon stimulation with P. aeruginosa, and that the secreted protein
 promotes DMN viability
 Abstracts of the General Meeting of the American Society for Microbiology,
 (***2001***) Vol. 101, pp. 115. print.

ANSWER 7 OF 11 MEDLINE on STM INDICATE 1
Rleomycin stimulates lung ***fibroblasts*** to release neutrophil and
monocyte chemotactic activity
We determined whether human lung ***fibroblasts*** might release
chemotactic activity for neutrophils (NCA) and monocytes (MCA) in response
to bleomycin. The human lung ***fibroblasts*** supernatant fluids
were evaluated for chemotactic activity by a blind well chamber technique.
Human lung ***fibroblasts*** released NCA and MCA in a dose- and
time-dependent manner in response to bleomycin. Checkerboard analysis of
supernatant fluids revealed that both NCA and MCA were chemotactic.
Partial characterization revealed that NCA was partly heat labile, trypsin
sensitive and predominantly ethyl acetate extractable. In contrast, MCA
was partly trypsin sensitive and ethyl acetate extractable. The release
of chemotactic activity was inhibited by lipoxygenase inhibitors and
cycloheximide. Molecular sieve column chromatography revealed that both
NCA and MCA had multiple chemotactic peaks. NCA was inhibited by
leukotriene B₄ receptor antagonist and anti-IL-8 and ***G*** -
CSF. The MCA was attenuated by leukotriene B₄ receptor
antagonist and monocyte chemoattractant protein-1 (M-CSF and TGF-beta
Ahs Leukotriene B₄ receptor antagonist and these Ahs inhibited the
corresponding m.w. chemotactic activity generated by column
chromatography. The concentrations of IL-8 ***G*** - ***CSF***
monocyte chemoattractant protein-1 (M-CSF and TGF-beta in the
supernatant fluids significantly increased in response to bleomycin.
These data suggest that lung ***fibroblasts*** may modulate
inflammatory cell ***recruitment*** into the lung by releasing NCA and
MCA in response to bleomycin.
Journal of immunology (Baltimore, Md. : 1950), *** (1999 May 15)***
Vol. 162, No. 10, pp. 6200-8
Journal code: 2985117R. ISSN: 0022-1767.

ANSWER 8 OF 11 CADUIS COPYRIGHT 2002 ACS on STM
Expression of multiple angiogenic cytokines in cultured normal human
prostate epithelial cells: predominance of vascular endothelial growth
factor
The cytokines that regulate angiogenesis in normal and malignant prostate
tissue are not well studied. Using an RT-PCR-based screen, the authors
observed that cultured low-passage normal human prostate epithelial cells
(PrECs) express a variety of cytokines which have been shown to have
angiogenic and/or endothelial cell-activating properties in various
systems. These include vascular endothelial growth factor (VEGF), basic
fibroblastic growth factor (bFGF), transforming growth factor-.alpha.
(TGF-.alpha.), transforming growth factor-.beta. (TGF-.beta.),
interleukin-8 (IL-8), tumor necrosis factor-.alpha. (TNF-.alpha.),
granulocyte-macrophage colony-stimulating factor (GM-CSF) and granulocyte
colony-stimulating factor (G-CSF). ***G*** - ***CSF***
VEGF, bFGF, GM-CSF ***G*** - ***CSF*** TGF-.alpha. and TNF-.alpha.
in these cells was confirmed by immunohistochem. Culture medium
conditioned by normal human PrECs for periods of up to 96 h were found to
contain VEGF, GM-CSF ***G*** - ***CSF*** IL-8, TGF-.beta. 1 and
TGF-.beta. 2 but not TNF-.alpha. or bFGF as detd. by ELISA. Of these,
VEGF was by far the most prominently expressed angiogenic cytokine
(approx. 2500 pg/mL conditioned medium at 96 h vs. 30 to 100 pg/mL
conditioned medium for the other cytokines). PrEC-conditioned medium
induced an approx. 2-fold stimulation of [³H]-thymidine incorporation in
cultured human umbilical cord endothelial cells (HUVECs) deprived of the
endothelial growth factors VEGF and bFGF; this stimulation was abolished

by neutralizing antibodies directed against VEGF but not bFGF. IL-8 (GM-CSF or TMR- α) VEGF expression by DrFCs was not markedly altered by administration or deprivation of other angiogenic cytokines for which these cells have receptors, suggesting that there is not a hierarchy of cytokines controlling its expression. However, retinoic acid, a component of DrFC growth medium, was found to modestly suppress VEGF at physiological concentrations (1 ng/ml). These data suggest that normal DrFCs express a variety of angiogenic cytokines, most prominently VEGF, to ***recruit*** a supporting vasculature even in culture. The authors' data also suggest that the ability of malignant DrFCs to stimulate angiogenesis may be intrinsic and does not need to be acquired during oncogenesis. International Journal of Cancer (***1999***), 80(6), 868-874
CODEN: IJCNAB; ISSN: 0020-7136

ANSWER 9 OF 11 MEDLINE ON STN DIRECTATE 2
Enhanced detection, maintenance, and differentiation of primitive human hematopoietic cells in cultures containing murine ***fibroblasts*** engineered to produce human steel factor, interleukin-3, and granulocyte colony-stimulating factor.
To determine whether the sensitivity of the human long-term culture-initiating cell (LTC-IC) assay could be increased, we have evaluated a spectrum of different ***fibroblast*** cell lines for their abilities to influence the number of cells detectable as LTC-IC to influence LTC-IC maintenance, and/or to influence LTC-IC differentiation into colony-forming cells (CFC) in cocultures containing various sources of LTC-IC. In a series of initial experiments with highly purified subpopulations of CD34⁺ cells from normal human marrow, no significant difference could be found between any of 3 different murine stromal ***fibroblast*** cells in terms of their support of either LTC-IC detection (CFC production) or maintenance (over a 6-week period), and all were equivalent to primary human marrow feeders (HMF). On the other hand, murine M2-10B4 ***fibroblasts*** engineered to produce high levels of both human granulocyte colony-stimulating factor (***G*** - ***CSF***) and interleukin-3 (IL-3, 100 and 4 ng/ml, respectively), either alone or mixed 1:1 with ST/ST ***fibroblasts***, engineered to produce high levels of soluble steel factor (SF) with or without production of the transmembrane form of SF (60 and 4 ng/ml, respectively), stimulated the production of up to 20-fold more CFC in LTC of cells from normal human marrow. ***G*** - ***CSF*** -mobilized blood or cord blood when compared with parallel cocultures containing HMF. Limiting dilution analysis of the CFC output from all three sources of LTC-IC showed that most of this increase was due to an ability of the engineered feeders to increase the plating efficiency of the LTC-IC assay (approximately 14-fold for marrow LTC-IC and approximately 4-fold for cord blood or mobilized blood LTC-IC). Analysis of the phenotype of these additionally ***recruited*** LTC-IC from marrow showed they had the same primitive CD34⁺CD45RA⁺CD71⁺ phenotype as conventionally defined LTC-IC. The limiting dilution studies also showed that the average number of CFC produced per LTC-IC was additionally and independently increased to yield values of 18 CFC per LTC-IC in marrow, 28 for LTC-IC in cord blood, and 25 for LTC-IC in ***G*** - ***CSF*** -mobilized blood. Replating of cells from primary LTC with different feeders into secondary LTC-IC assays containing the best combination of engineered feeders showed that LTC-IC maintenance could be significantly enhanced (up to 7-fold as compared with primary cocultures containing HMF). However, this enhancement was still not sufficient to amplify the number of LTC-IC present after 6 weeks above the input value. Thus, engineering murine ***fibroblasts*** to produce sufficient SF ***G*** - ***CSF*** and IL-3 can markedly enhance the detection as well as the maintenance in vitro of a very primitive population of human progenitor cells present in normal adult marrow, mobilized blood, and cord blood by providing the most sensitive assay conditions thus far described. The present findings also provide

new evidence of biologic heterogeneity between different cell populations that can be operationally identified as T_H1-T_H2 thus re-emphasizing the importance of limiting dilution analyses to distinguish between quantitative and qualitative effects on these cells
Blood *** (1996 Nov 15) *** Vol 88 No. 10, pp. 3765-73.
Journal code: 7603509. ISSN: 0006-4971.

ANSWER 10 OF 11 MEDLINE on STN
Microenvironmental influences on inflammatory cell differentiation
Airways inflammation involves accumulation of inflammatory cells such as eosinophils, basophils and mast cells which are derived from progenitors in marrow and blood. The inflamed tissue of the airways through its structural (epithelium, stroma) and inflammatory cell components, produces an array of cytokines which can influence the differentiation of inflammatory cell progenitors. It is a particular mechanism that we have investigated showing that molecules such as GM-CSF
QSR IL-6 IL-8 and SDF can be produced by airways epithelial cells and ***fibroblasts*** in quantities sufficient to induce hematopoietic events either systemically or locally. Corticosteroids may act therapeutically at least in part to block inflammatory cell differentiation and thus ***recruitment*** into the allergic inflammatory process in the airways
Allergy *** (1995) *** Vol 50 No 25 Suppl, pp. 25-8. Ref: 20
Journal code: 7804028. ISSN: 0105-4538.

ANSWER 11 OF 11 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
CYTOKINES AND FUNGAL INFECTIONS
Cytokines play a major role within the immune system as necessary mediators involved in the set up of the specific immune response as well as factors which amplify the anti-microbial response. It includes activation of B and T lymphocytes leading to the production of antibodies and generation of specific cytotoxic T cells, activation of phagocytic cells, ***recruitment*** of cells at the infectious site and stimulation of the hematopoiesis leading to an increased number of active cells. Furthermore cytokines are a link between immune cells and many others of the organism. For example, some of them act on the central nervous system and possess pro-inflammatory activities. During fungal infections monocytes and macrophages are triggered either by fungi or their derived products and release tumor necrosis factor alpha [TNF alpha] and interleukin-1 [IL-1]. Other cells such as ***fibroblasts***, NK cells and neutrophils can be activated by fungi to produce cytokines. In addition T lymphocytes are also stimulated and release interferon gamma [IFN gamma], a potent macrophage activator. If an excess of cytokines is produced it is then possible to detect them in plasma. This has been reported for TNF alpha, IL-3 and IL-6. The capacity of these cytokines to enhance in vitro anti-fungal activities of phagocytic cells has been reported for IFN gamma, IL-1 alpha and macrophage-colony stimulating factor [M-CSF] which amplify the monocytes/macrophages killing activities and for IFN gamma and IL-8 which trigger the functions of neutrophils. In the mouse model in vivo experiments have demonstrated the efficiency of IL-1, M-CSF, ***QSR*** and TNF alpha to increase the protection against fungal infections. In addition some cytokines like IL-1 can act synergistically with anti-fungi drugs. The efficiency of these cytokines are often associated with a pre-treatment before injection of the microbial agent. Thus these animal models are not always reliable for the treatment of human fungal infections. Th1 as well as Th2 [two T lymphocytes subpopulations which differ in their pattern of cytokine production] can be activated during experimental fungal infection and led to different immunity associated or not with protection. Further knowledge of the immune response to fungal infections as well as a better

understanding of the relative role of individual cytokines to induce
protection will help in the near future to enhance the defense mechanisms
involved during fungal infections
Journal de Mycologie Medicale, (***1992***) Vol. 2, No. 2, pp. 61-67.
ISSN: 1156-5233.

=> d his

(FILE 'HOME' ENTERED AT 02:55:43 ON 17 APR 2008)

FILE 'MEDLINE BIOSIS CAPIIS' ENTERED AT 02:57:49 ON 17 APR 2008
T.1 0 KETICHIS/AU AND FUJITA?/AU
T.2 62 TIM?/AU AND FUJITA?/AU
T.3 29453 G-CSE
T.4 713 T.3 AND FERRORIAST
T.5 23 T.4 AND RECRUIT?
T.6 0 T.2 AND T.5
T.7 14 T.5 AND 1970-2004 /DV
T.8 11 DUP REM T.7 (3 DUPLICATES REMOVED)
L9 5 L8 AND METHOD

=> logoff
ALL T.# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y) /N/HOLD.Y

COST IN U S DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 03:03:53 ON 17 APR 2008

SINCE FILE	TOTAL
ENTRY	SESSION
48.95	49.79
-4.00	-4.00